

# SEQUENCE LISTING

<110> Bayer, Robert

<120> In Vitro Modification of Glycosylation  
Patterns of Recombinant Glycopeptides

<130> 040853-01-5108-US

<140> 09/855,320

<141> 2001-05-14

<150> 60/203,851

<151> 2000-05-12

<160> 2

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 359

<212> PRT

<213> Human

<400> 1

```

Met Asp Pro Leu Gly Pro Ala Lys Pro Gln Trp Ser Trp Arg Cys Cys
 1      5      10      15
Leu Thr Thr Leu Phe Gln Leu Leu Met Ala Val Cys Phe Phe Ser
 20      25      30
Tyr Leu Arg Val Ser Gln Asp Asp Pro Thr Val Tyr Pro Asn Gly Ser
 35      40      45
Arg Phe Pro Asp Ser Thr Gly Thr Pro Ala His Ser Ile Pro Leu Ile
 50      55      60
Leu Leu Trp Thr Trp Pro Phe Asn Lys Pro Ile Ala Leu Pro Arg Cys
 65      70      75      80
Ser Glu Met Val Pro Gly Thr Ala Asp Cys Asn Ile Thr Ala Asp Arg
 85      90      95
Lys Val Tyr Pro Gln Ala Asp Ala Val Ile Val His His Arg Glu Val
100      105      110
Met Tyr Asn Pro Ser Ala Gln Leu Pro Arg Ser Pro Arg Arg Gln Gly
115      120      125
Gln Arg Trp Ile Trp Phe Ser Met Glu Ser Pro Ser His Cys Trp Gln
130      135      140
Leu Lys Ala Met Asp Gly Tyr Phe Asn Leu Thr Met Ser Tyr Arg Ser
145      150      155      160
Asp Ser Asp Ile Phe Thr Pro Tyr Gly Trp Leu Glu Pro Trp Ser Gly
165      170      175
Gln Pro Ala His Pro Pro Leu Asn Leu Ser Ala Lys Thr Glu Leu Val
180      185      190
Ala Trp Ala Val Ser Asn Trp Gly Pro Asn Ser Ala Arg Val Arg Tyr
195      200      205
Tyr Gln Ser Leu Gln Ala His Leu Lys Val Asp Val Tyr Gly Arg Ser
210      215      220
His Lys Pro Leu Pro Gln Gly Thr Met Met Glu Thr Leu Ser Arg Tyr
225      230      235      240
Lys Phe Tyr Leu Ala Phe Glu Asn Ser Leu His Pro Asp Tyr Ile Thr
245      250      255
Glu Lys Leu Trp Arg Asn Ala Leu Glu Ala Trp Ala Val Pro Val Val
260      265      270
Leu Gly Pro Ser Arg Ser Asn Tyr Glu Arg Phe Leu Pro Pro Asp Ala
275      280      285
Phe Ile His Val Asp Asp Phe Gln Ser Pro Lys Asp Leu Ala Arg Tyr

```

290	Leu	Gln	Glu	Leu	Asp	Lys	Asp	His	Ala	Arg	Tyr	300	Leu	Ser	Tyr	Phe	Arg
305	Trp	Arg	Glu	Thr	Leu	Arg	Pro	Arg	Ser	Phe	Ser	315	Trp	Ala	Leu	Ala	Phe
					325					330						335	
	Cys	Lys	Ala	Cys	Trp	Lys	Leu	Gln	Glu	Glu	Ser	Arg	Tyr	Gln	Thr	Arg	
				340					345					350			
	Gly	Ile	Ala	Ala	Trp	Phe	Thr										
			355														

<210> 2  
 <211> 342  
 <212> PRT  
 <213> Human

<400> 2

Met	Asn	Asn	Ala	Gly	His	Gly	Pro	Thr	Arg	Arg	Leu	Arg	Gly	Leu	Gly
1				5					10					15	
Val	Leu	Ala	Gly	Val	Ala	Leu	Leu	Ala	Ala	Leu	Trp	Leu	Leu	Trp	Leu
			20					25					30		
Leu	Gly	Ser	Ala	Pro	Arg	Gly	Thr	Pro	Ala	Pro	Gln	Pro	Thr	Ile	Thr
		35					40					45			
Ile	Leu	Val	Trp	His	Trp	Pro	Phe	Thr	Asp	Gln	Pro	Pro	Glu	Leu	Pro
	50					55					60				
Ser	Asp	Thr	Cys	Thr	Arg	Tyr	Gly	Ile	Ala	Arg	Cys	His	Leu	Ser	Ala
65					70					75					80
Asn	Arg	Ser	Leu	Leu	Ala	Ser	Ala	Asp	Ala	Val	Val	Phe	His	His	Arg
				85					90					95	
Glu	Leu	Gln	Thr	Arg	Arg	Ser	His	Leu	Pro	Leu	Ala	Gln	Arg	Pro	Arg
			100					105					110		
Gly	Gln	Pro	Trp	Val	Trp	Ala	Ser	Met	Glu	Ser	Pro	Ser	His	Thr	His
		115					120					125			
Gly	Leu	Ser	His	Leu	Arg	Gly	Ile	Phe	Asn	Trp	Val	Leu	Ser	Tyr	Arg
	130					135					140				
Arg	Asp	Ser	Asp	Ile	Phe	Val	Pro	Tyr	Gly	Arg	Leu	Glu	Pro	His	Trp
145					150					155					160
Gly	Pro	Ser	Pro	Pro	Leu	Pro	Ala	Lys	Ser	Arg	Val	Ala	Ala	Trp	Val
			165						170					175	
Val	Ser	Asn	Phe	Gln	Glu	Arg	Gln	Leu	Arg	Ala	Arg	Leu	Tyr	Arg	Gln
		180						185					190		
Leu	Ala	Pro	His	Leu	Arg	Val	Asp	Val	Phe	Gly	Arg	Ala	Asn	Gly	Arg
		195					200					205			
Pro	Leu	Cys	Ala	Ser	Cys	Leu	Val	Pro	Thr	Val	Ala	Gln	Tyr	Arg	Phe
	210					215					220				
Tyr	Leu	Ser	Phe	Glu	Asn	Ser	Gln	His	Arg	Asp	Tyr	Ile	Thr	Glu	Lys
225					230					235					240
Phe	Trp	Arg	Asn	Ala	Leu	Val	Ala	Gly	Thr	Val	Pro	Val	Val	Leu	Gly
			245						250					255	
Pro	Pro	Arg	Ala	Thr	Tyr	Glu	Ala	Phe	Val	Pro	Ala	Asp	Ala	Phe	Val
			260					265					270		
His	Val	Asp	Phe	Gly	Ser	Ala	Arg	Glu	Leu	Ala	Ala	Phe	Leu	Thr	
		275				280						285			
Gly	Met	Asn	Glu	Ser	Arg	Tyr	Gln	Arg	Phe	Phe	Ala	Trp	Arg	Asp	Arg
	290					295					300				
Leu	Arg	Val	Arg	Leu	Phe	Thr	Asp	Trp	Arg	Glu	Arg	Phe	Cys	Ala	Ile
305					310					315					320
Cys	Asp	Arg	Tyr	Pro	His	Leu	Pro	Arg	Ser	Gln	Val	Tyr	Glu	Asp	Leu
				325					330					335	
Glu	Gly	Trp	Phe	Gln	Ala										
			340												